Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	9	(calori? or diet) restrict$ same (mimic or simulate or represent)	USPAT	ADJ	ON	2004/10/26 17:13

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$%^STN;HighlightOn=  ***;HighlightOff=***  ;

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* * * * * * * * * *   Welcome to STN International   * * * * * * * * * *

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 NEWS  9  SEP 01   INPADOC: New family current-awareness alert (SDI) available
 NEWS 10  SEP 01   New pricing for the Save Answers for SciFinder Wizard within
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 NEWS 11  SEP 01   New display format, HITSTR, available in WPIDS/WPINDEX/WPIX
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 NEWS 13  SEP 27   SWETSCAN will no longer be available on STN

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               MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2004
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FILE 'HOME' ENTERED AT 17:18:38 ON 26 OCT 2004

=> index biosci
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                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.21       0.21

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE,
      AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS,
      BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB,
      CROPU, DDFB, DDFU, DGENE, DISSABS, ...' ENTERED AT 17:18:49 ON 26 OCT
2004

75 FILES IN THE FILE LIST IN STNINDEX

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search error messages that display as 0* with SET DETAIL OFF.

=> s (calorie or caloric or diet) (w) restrict?
         70   FILE ADISCTI
          5   FILE ADISINSIGHT
          4   FILE ADISNEWS
        762   FILE AGRICOLA
          1   FILE ANTE
         11   FILE AQUASCI
         23   FILE BIOBUSINESS
          2   FILE BIOCOMMERCE
         16   FILE BIOENG
       2768   FILE BIOSIS
          2   FILE BIOTECHABS
          2   FILE BIOTECHDS
       1943   FILE BIOTECHNO
       1003   FILE CABA
        362   FILE CANCERLIT
       2568   FILE CAPLUS
          1   FILE CEABA-VTB
          1   FILE CEN
          5   FILE CIN
        137   FILE CONFSCI
          1   FILE CROPB
          2   FILE CROPU
         45   FILE DDFB
<------User Break------>

=> s (((calorie or caloric or diet) (w) restrict?)(p) aging
UNMATCHED LEFT PARENTHESIS '(('
The number of right parentheses in a query must be equal to the
number of left parentheses.

=> s (((calorie or caloric or diet) (w) restrict?))(p) aging
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          0*  FILE ANTE
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          2*  FILE BIOCOMMERCE
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          1*  FILE BIOTECHDS
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          4   FILE DDFU
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          0*  FILE FOMAD
          0*  FILE FOREGE
         14*  FILE FROSTI
          3*  FILE FSTA
          6   FILE IFIPAT
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          3*  FILE NTIS
          0*  FILE NUTRACEUT
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        572   FILE SCISEARCH
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          4   FILE USPAT2
          1   FILE VETU
          0*  FILE WATER
          3   FILE WPIDS
          3   FILE WPINDEX

  37 FILES HAVE ONE OR MORE ANSWERS,   75 FILES SEARCHED IN STNINDEX

L1   QUE (((CALORIE OR CALORIC OR DIET) (W) RESTRICT?))(P) AGING

=> s l1 and (mimic or simulat?)
          0*  FILE ADISNEWS
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          0*  FILE AQUALINE
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          0*  FILE CEABA-VTB
          0*  FILE CIN
          1   FILE DDFU
          2   FILE DISSABS
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          5   FILE EMBASE
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          0*  FILE FOREGE
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          0*  FILE FSTA
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          1*  FILE PASCAL
          0*  FILE PHARMAML
          7   FILE PROMT
          7   FILE SCISEARCH
          7   FILE TOXCENTER
         22   FILE USPATFULL
          4   FILE USPAT2
          0*  FILE WATER
          1   FILE WPIDS
          1   FILE WPINDEX

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L2   QUE L1 AND (MIMIC OR SIMULAT?)

=> file hits
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                                                   ENTRY    SESSION
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=> s 12
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
FIELD CODE - 'AND' OPERATOR ASSUMED 'ESTRICT?))(P) AGING'
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
FIELD CODE - 'AND' OPERATOR ASSUMED 'ESTRICT?))(P) AGING'
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
FIELD CODE - 'AND' OPERATOR ASSUMED 'ESTRICT?))(P) AGING'
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FIELD CODE - 'AND' OPERATOR ASSUMED 'ESTRICT?))(P) AGING'
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FIELD CODE - 'AND' OPERATOR ASSUMED 'ESTRICT?))(P) AGING'
L3          105 L2

=> dup rem 13
DUPLICATE IS NOT AVAILABLE IN 'FEDRIP'.
ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE
PROCESSING COMPLETED FOR L3
L4            64 DUP REM L3 (41 DUPLICATES REMOVED)

=> d his

     (FILE 'HOME' ENTERED AT 17:18:38 ON 26 OCT 2004)

     INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE,
     AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS,
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     CROPU, DDFB, DDFU, DGENE, DISSABS, ...' ENTERED AT 17:18:49 ON 26 OCT 2004
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              70   FILE ADISCTI
               5   FILE ADISINSIGHT
               4   FILE ADISNEWS
             762   FILE AGRICOLA
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              11   FILE AQUASCI
              23   FILE BIOBUSINESS
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              16   FILE BIOENG
            2768   FILE BIOSIS
               2   FILE BIOTECHABS
               2   FILE BIOTECHDS
            1943   FILE BIOTECHNO
            1003   FILE CABA
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             137   FILE CONFSCI
               1   FILE CROPB
               2   FILE CROPU
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  45   FILE DDFB
  66   FILE DDFU
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  37   FILE AGRICOLA
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 589   FILE CAPLUS
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 214   FILE TOXCENTER
  53   FILE USPATFULL
   4   FILE USPAT2
   1   FILE VETU
   0*  FILE WATER
   3   FILE WPIDS
   3   FILE WPINDEX
L1      QUE (((CALORIE OR CALORIC OR DIET) (W) RESTRICT?))(P) AGING
    ---------
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    7   FILE TOXCENTER
   22   FILE USPATFULL
    4   FILE USPAT2
    0*  FILE WATER
    1   FILE WPIDS
    1   FILE WPINDEX
L2      QUE L1 AND (MIMIC OR SIMULAT?)
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    FILE 'USPATFULL, CAPLUS, FEDRIP, PROMT, SCISEARCH, TOXCENTER, BIOSIS,
    MEDLINE, EMBASE, IFIPAT, USPAT2, ESBIOBASE, DISSABS, FROSTI, BIOBUSINESS,
    CABA, CANCERLIT, DRUGU, LIFESCI, WPIDS, BIOTECHNO, PASCAL' ENTERED AT
    17:23:16 ON 26 OCT 2004
L3          105 S L2
L4           64 DUP REM L3 (41 DUPLICATES REMOVED)

=> s l4 and (identif? or assay?)
  14 FILES SEARCHED...
L5          35 L4 AND (IDENTIF? OR ASSAY?)

=> s l5 and PY<2000
'2000' NOT A VALID FIELD CODE
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   5 FILES SEARCHED...
   7 FILES SEARCHED...
   9 FILES SEARCHED...
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  17 FILES SEARCHED...
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SEARCH ENDED BY USER

=> index biosci
FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED
COST IN U.S. DOLLARS                              SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                    52.55      56.75

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE,
       AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS,
       BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB,
       CROPU, DDFB, DDFU, DGENE, DISSABS, ...' ENTERED AT 17:30:22 ON 26 OCT
2004

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=> s (((CALORIE OR CALORIC OR DIET) (W) RESTRICT?))(P) (MIMIC OR SIMULAT?)
          0*  FILE ADISNEWS
          2   FILE AGRICOLA
          0*  FILE ANTE
          0*  FILE AQUALINE
          0*  FILE BIOCOMMERCE
          0*  FILE BIOENG
         18   FILE BIOSIS
          0*  FILE BIOTECHABS
          0*  FILE BIOTECHDS
          9*  FILE BIOTECHNO
          4   FILE CABA
          2   FILE CANCERLIT
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          0*  FILE CEABA-VTB
<------User Break------>
<------User Break------>
<------User Break------>
<------User Break------>
<------User Break------>
<------User Break------>

=> file biosis caplus
COST IN U.S. DOLLARS                              SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     5.13      61.88

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=> s (((CALORIE OR CALORIC OR DIET) (W) RESTRICT?)) AND (MIMIC OR SIMULAT?)
L6          60 (((CALORIE OR CALORIC OR DIET) (W) RESTRICT?)) AND (MIMIC OR
               SIMULAT?)

=> dup rem l6
PROCESSING COMPLETED FOR L6
COMMAND INTERRUPTED
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Desk by telephone or via SEND in the STNMAIL file.

=> dup rem l6
PROCESSING COMPLETED FOR L6
COMMAND INTERRUPTED
If this message appears repeatedly, please notify the Help Desk.
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Desk by telephone or via SEND in the STNMAIL file.

=> dup rem l6
PROCESSING COMPLETED FOR L6
COMMAND INTERRUPTED
If this message appears repeatedly, please notify the Help Desk.
Enter "HELP STN" for information on contacting the nearest STN Help
Desk by telephone or via SEND in the STNMAIL file.

=> s l6 and intervention
L10          5 L6 AND INTERVENTION

=> d l10 bib ab 1-5

L10  ANSWER 1 OF 5  BIOSIS  COPYRIGHT (c) 2004 The Thomson Corporation.  on STN
AN   2004:285766  BIOSIS
DN   PREV200400284523
TI   Bed rest impairs and hypocaloric nutrition improves endothelium-dependent
     vasoreactivity.
AU   Hesse, Christiane [Reprint Author]; Siedler, Heike; Haefeli, Walter E
CS   Department of Internal Medicine VI, Clinical Pharmacology and
     Pharmacoepidemiology, University Hospital, Bergheimer Str. 58, Heidelberg,
     D-69115, Germany
     christiane_hesse@med.uni-heidelberg.de
SO   FASEB Journal, (2004) Vol. 18, No. 4-5, pp. Abst. 820.6.
     http://www.fasebj.org/. e-file.
     Meeting Info.: FASEB Meeting on Experimental Biology: Translating the
     Genome. Washington, District of Columbia, USA. April 17-21, 2004. FASEB.
     ISSN: 0892-6638 (ISSN print).
DT   Conference; (Meeting)
     Conference; Abstract; (Meeting Abstract)
LA   English
ED   Entered STN: 16 Jun 2004
     Last Updated on STN: 16 Jun 2004
AB   Spaceflight and head-down-tilt bed rest (HDT) alter the regulation of the
     peripheral vasculature.  We investigated in a cross-over study whether
       ***simulated***   microgravity (14 days of 6degrees HDT) and
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caloric ***restriction*** (-25%, fat reduced) impair nitric oxide-dependent vasodilation. Using venous occlusion plethysmography cumulative intraarterial dose-response curves to endothelium-independent (sodium nitroprusside, SNP) and endothelium-dependent (acetylcholine, ACh) vasodilators were constructed in 10 healthy male volunteers before and on day 12 of each of four ***intervention*** periods (normo- (NC) or hypocaloric diet (HC) in upright position (UP) or HDT) and drug-induced changes of forearm blood flow were evaluated. HDT with NC significantly impaired the dose-response to ACh (ANOVA, p=0.004) but not to SNP, whereas UP with HC significantly improved ACh (p=0.044) and SNP responses (p<0.001) compared to pre- ***intervention*** . When HDT was combined with HC there was only a trend towards impaired ACh responses while NC in UP had no effect. Individual diet-induced changes in LDL-cholesterol were not correlated with changes in endothelial function. In conclusion, HDT substantially impairs endothelium-dependent arterial relaxation in humans. The effect of bed rest is modulated by dietary factors and appears partially antagonized by a low fat diet.Supported by BMBF grant 50 WB 0150.

L10 ANSWER 2 OF 5 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN
AN 2004:100452 BIOSIS
DN PREV200400102266
TI Estimation of segmental muscle volume by bioelectrical impedance spectroscopy.
AU Bartok, Cynthia; Schoeller, Dale A. [Reprint Author]
CS Dept. of Nutritional Sciences, Univ. of Wisconsin Madison, 1415 Linden Dr., Madison, WI, 53706, USA
dschoell@nutrisci.wisc.edu
SO Journal of Applied Physiology, (January 2004) Vol. 96, No. 1, pp. 161-166. print.
ISSN: 8750-7587 (ISSN print).
DT Article
LA English
ED Entered STN: 18 Feb 2004
Last Updated on STN: 18 Feb 2004
AB This study validated bioelectrical impedance spectroscopy (BIS) with Cole-Cole modeled measurements of calf and arm segmental water volume and volume changes during 72 h of ***simulated*** microgravity and ***caloric*** ***restriction*** by using magnetic resonance imaging (MRI) muscle volume as a criterion method. MRI and BIS measurements of calf and upper arm segments were made in 18 healthy men and women (age, 29+-8 (SD) yr; height, 171+-11 cm.; mass, 71+-16 kg) before and after the ***intervention*** . Muscle volume of arm and leg segments by MRI was on average 15+-10 and 14+-8% lower, respectively, than the estimated total water volume by BIS (P<0.01), but their correlations were excellent (r=0.96 and r=0.93, respectively). MRI- vs. BIS-predicted volume changes were a decrease of 49+-68 vs. 41+-62 ml in the calf and a decrease of 18+-23 vs. 11+-24 ml in the arm, respectively (P>0.05 for both). BIS detected the extracellular water shifts in the calf resulting from the head-down tilt treatment, but the underfeeding protocol was not of sufficient duration or intensity to produce limb intracellular water changes detectable by BIS. BIS was highly correlated with segmental muscle volume and tracked changes associated with head-down tilt. Further research, however, is needed to determine whether BIS can accurately access separate changes in intracellular and extracellular volume.

L10 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2004:669416 CAPLUS
TI Development of ***calorie*** ***restriction*** mimetics as a prolongevity strategy
AU Ingram, Donald K.; Anson, Michael; de Cabo, Rafael; Mamczarz, Jacek; Zhu, Min; Mattison, Julie; Lane, Mark A.; Roth, George S.
CS Laboratory of Experimental Gerontology, Gerontology Research Center, National Institute on Aging, National Institutes of Health, Baltimore, MD, 21224, USA
SO Annals of the New York Academy of Sciences (2004), 1019(Strategies for Engineered Negligible Senescence), 412-423
CODEN: ANYAA9; ISSN: 0077-8923
PB New York Academy of Sciences
DT Journal
LA English
AB By applying ***calorie*** ***restriction*** (CR) at 30-50% below ad libitum levels, studies in numerous species have reported increased life span, reduced incidence and delayed onset of age-related diseases, improved stress resistance, and decelerated functional decline. Whether this nutritional ***intervention*** is relevant to human aging remains to be detd.; however, evidence emerging from CR studies in nonhuman primates suggests that response to CR in primates parallels that obsd. in rodents. To evaluate CR effects in humans, clin. trials have been initiated. Even if evidence could substantiate CR as an effective antiaging strategy for humans, application of this ***intervention*** would be problematic due to the degree and length of restriction required. To meet this challenge for potential application of CR, new research to create " ***caloric*** ***restriction*** mimetics" has emerged. This strategy focuses on identifying compds. that ***mimic*** CR effects by targeting metabolic and stress response pathways affected by CR, but without actually restricting caloric intake. Microarray studies show that gene expression profiles of key enzymes in glucose (energy) handling pathways are modified by CR. Drugs that inhibit glycolysis (2-deoxyglucose) or enhance insulin action (metformin) are being assessed as CR mimetics. Promising results have emerged from initial studies regarding physiol. responses indicative of CR (reduced body temp. and plasma insulin) as well as protection against neurotoxicity, enhanced dopamine action, and upregulated brain-derived neurotrophic factor. Further life span analyses in addn. to expanded toxicity studies must be completed to assess the potential of any CR mimetic, but this strategy now appears to offer a very promising and expanding research field.
RE.CNT 65 THERE ARE 65 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:396662 CAPLUS
DN 135:509
TI Therapeutic ***intervention*** to ***mimic*** the effect of ***caloric*** ***restriction***
IN Chacon, Marco A.
PA USA
SO PCT Int. Appl., 24 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1
PATENT NO. KIND DATE APPLICATION NO. DATE

PI	WO 2001037827	A1	20010531	WO 2000-US28322	20001013
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	EP 1220669	A1	20020710	EP 2000-973504	20001013
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
	JP 2003514855	T2	20030422	JP 2001-539442	20001013
	US 2002173450	A1	20021121	US 2002-120362	20020412
PRAI	US 1999-159099P	P	19991013		
	WO 2000-US28322	W	20001013		

AB Methods are provided for promoting longevity and decreasing the incidence of aging-assocd. pathologies (e.g., cancer) by the administration of one or more of the following LFFA: linoleic, oleic and palmitic acids. Secondary LFFA derived from this set, as well as their CoA derivs. and synthetic analogs, are effective also in promoting longevity and delaying the onset of age-assocd. disorders. In addn., interventions including LFFA and CoA LLFA formulations are described which protect the organism from acute phys. stress, tissue damage and hypoxia (either due to trauma or secondary to surgical procedures).

RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1999:670800 CAPLUS
DN 132:151081
TI 2-Deoxy-D-glucose feeding in rats mimics physiologic effects of ***calorie*** ***restriction***
AU Lane, Mark A.; Ingram, Donald K.; Roth, George S.
CS Intramural Research Program, Gerontology Research Center, National Institute on Aging, Baltimore, MD, 21224-6823, USA
SO Journal of Anti-Aging Medicine (1998), 1(4), 327-337
CODEN: JAMEF8; ISSN: 1094-5458
PB Mary Ann Liebert, Inc.
DT Journal
LA English
AB ***Caloric*** ***restriction*** (CR) extends the life span, slows the rate of aging, and delays the onset of many age-related diseases in short-lived lab. species, primarily rodents. Although it is not known if CR extends the life span in long-lived mammals, findings emerging from CR studies in rhesus monkeys agree with the rodent data suggesting that this ***intervention*** can have beneficial effects in primates. Even if CR could extend the life span in long-lived species, it is unlikely that the 30-40% decrease in dietary energy intake used typically in these studies would be accepted by humans. An alternative strategy may be to design interventions that ***mimic*** the biol. effects of CR but do not significantly decrease food intake. The glucose analog 2-deoxy-D-glucose (2-DG) could ***mimic*** certain effects of CR. We administered 2-DG at 0.2, 0.4, and 0.6% in the diet to male Fischer 344 rats. Rats fed 0.4% 2-DG weighed slightly less than controls and had decreased body temp. and fasting blood serum insulin levels. It may be possible to design interventions to ***mimic*** certain metabolic effects and perhaps other beneficial effects of CR, such as life span extension and retardation of physiol. aging.

RE.CNT 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

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(FILE 'HOME' ENTERED AT 17:18:38 ON 26 OCT 2004)

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23	FILE BIOBUSINESS
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16	FILE BIOENG
2768	FILE BIOSIS
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2	FILE BIOTECHDS
1943	FILE BIOTECHNO
1003	FILE CABA
362	FILE CANCERLIT
2568	FILE CAPLUS
1	FILE CEABA-VTB
1	FILE CEN
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137	FILE CONFSCI
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45	FILE DDFB
66	FILE DDFU

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443   FILE EMBASE
291*  FILE ESBIOBASE
 85*  FILE FEDRIP
  0*  FILE FOMAD
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 14*  FILE FROSTI
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  6   FILE IFIPAT
 26   FILE JICST-EPLUS
  0*  FILE KOSMET
 76   FILE LIFESCI
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  0*  FILE NUTRACEUT
172*  FILE PASCAL
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 27   FILE PROMT
572   FILE SCISEARCH
214   FILE TOXCENTER
 53   FILE USPATFULL
  4   FILE USPAT2
  1   FILE VETU
  0*  FILE WATER
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  3   FILE WPINDEX

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L2     QUE L1 AND (MIMIC OR SIMULAT?)
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L3        105 S L2
L4         64 DUP REM L3 (41 DUPLICATES REMOVED)
L5         35 S L4 AND (IDENTIF? OR ASSAY?)

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE,
AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS,
BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB,
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  0*  FILE DDFU
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    FILE 'BIOSIS, CAPLUS' ENTERED AT 17:35:46 ON 26 OCT 2004
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L10          5 S L6 AND INTERVENTION

=> s l6 and (identif? or assay?)
L11          6 L6 AND (IDENTIF? OR ASSAY?)

=> s l11 not l10
L12          5 L11 NOT L10

=> dup rem l12
PROCESSING COMPLETED FOR L12
COMMAND INTERRUPTED
If this message appears repeatedly, please notify the Help Desk.
Enter "HELP STN" for information on contacting the nearest STN Help
Desk by telephone or via SEND in the STNMAIL file.

=> d l12 bib ab 1-5

L12  ANSWER 1 OF 5  BIOSIS  COPYRIGHT (c) 2004 The Thomson Corporation.  on STN
AN   2002:479779  BIOSIS
DN   PREV200200479779
TI   Optimizing detection of QTLs retarding aging: Choice of statistical model
     and animal requirements.
AU   Klebanov, S.; Harrison, D. E. [Reprint author]
CS   Jackson Laboratory, 600 Main St., Bar Harbor, ME, 04609-0800, USA
     deh@aretha.jax.org
SO   Mechanisms of Ageing and Development, (January, 2002) Vol. 123, No. 2-3,
     pp. 131-144. print.
     CODEN: MAGDA3. ISSN: 0047-6374.
DT   Article
LA   English
ED   Entered STN: 11 Sep 2002
     Last Updated on STN: 11 Sep 2002
AB   Quantitative trait locus (QTL) analysis makes no assumptions about the
     identity of genes involved in regulating aging.  Moreover, it may be used
     as the first step in  ***identifying***  such genes and, thus QTL
     analysis may be instrumental in formulating new hypotheses about aging.
     Genetic experiments, however, require hundreds to thousands of animals and
     are very expensive in mammals.  Statistical power to detect longevity
     genes could be improved by excluding accidental, unrelated to aging
     mortality.  While many early deaths are probably accidental, excluding
     early mortality altogether eliminates the age-related component, too.  We
     used computer  ***simulations***  to assess the effect of excluding
     early age-related, mortality on the statistical power of several common
     tests, such as t-test, Mann-Whitney and chi2.  Surprisingly, even the
     age-related, Gompertz component of early mortality reduces the statistical
     power of the t- and Mann-Whitney tests.  For example, in a backcross
     design, to detect a gene slowing down the rate of aging and increasing
     mouse life span by 10% (P=0.0001; power=0.8), a regular t-test will
     require 640 mice, all kept for the entire life span and genotyped.  If
     life spans of only 25% of the longest-lived animals from each of the two
     groups, carrying a putative longevity allele and not carrying it, are
     compared, population size can be reduced by two-fold, to about 300, and
     genotyping by seven-fold, to 90.  Confirming  ***simulation***  results,
     the significance of the effect of  ***caloric***  ***restriction***
     on life span increased from P=3.4X10-5 to 1.1X10-7, when life spans of
     only 40% of the longest-lived mice from each of the two groups, ad libitum
     fed and  ***calorie***  ***restricted***  , were compared.  Finally,
     finding the optimal combination of statistical test, the number of
     phenotyped and the number of genotyped animals, which would minimize
     experimental costs was addressed.

L12  ANSWER 2 OF 5  BIOSIS  COPYRIGHT (c) 2004 The Thomson Corporation.  on STN
AN   2002:206727  BIOSIS
DN   PREV200200206727
TI   Melatonin fails to modulate immune parameters influenced by
       ***calorie***  ***restriction***  in aging Fischer 344 rats.
AU   Pahlavani, Mohammad A. [Reprint author]; Vargas, Daniel A.; Evans, Ted R.;
     Shu, Jian-Hua; Nelson, James F.
CS   Geriatric Research, Education, and Clinical Center, Audie L. Murphy
     Memorial Veterans Hospital, 7400 Merton Minter Boulevard, GRECC - 182, San
     Antonio, TX, 78284, USA
     Pahlavani@uthscsa.edu
SO   Experimental Biology and Medicine (Maywood), (March, 2002) Vol. 227, No.
     3, pp. 201-207. print.
     ISSN: 1535-3702.
DT   Article
LA   English
ED   Entered STN: 20 Mar 2002
     Last Updated on STN: 20 Mar 2002
AB   The aim of this study was to determine if long-term treatment with
     melatonin (MEL), a purported anti-aging agent, was as effective as
       ***calorie***  ***restriction***  (CR) in modulating immune
parameters
     in aging Fischer 344 male rats.  Splenic lymphocytes were isolated from
     17-month-old rats that, beginning at 6 weeks of age, were treated with MEL
     (4 or 16 mug/ml in drinking water) and from 17-month-old rats fed ad
     libitum (AL) or rats fed a CR diet (55% of AL intake).  The number of
     splenic T cell populations and T cell subsets was measured by flow
     cytometry, the proliferative response of splenocytes to Concanavalin A
     (Con A) and lipopolysaccharide (LPS) was measured by (3H)thymidine
     incorporation, and the induction of cytokine production (IL-2 and
     IFN-gamma) was measured by ELISA  ***assay***  .  In addition, the level
     of the natural killer (NK) cell activity was assessed by fluorimetric
       ***assay***  .  CR rats had a higher number of lymphocytes expressing the
     naive T cell marker (CD3 OX22) than AL rats (P<0.05).  CR rats also showed
     greater induction of proliferative response, IL-2 and IFN-gamma levels
     following Con A  ***simulation***  , and NK cell activity than AL rats
     (P<0.05).  MEL-treated rats did not differ from AL rats in any of these
     parameters or in any other measurement.  These results indicate that MEL
     treatment is unable to modulate immune function in a manner comparable
     with that of CR.

L12  ANSWER 3 OF 5  CAPLUS  COPYRIGHT 2004 ACS on STN
AN   2004:602260  CAPLUS
DN   141:185183
TI   CAR: detailing new models
AU   Goodwin, Bryan; Moore, John T.
CS   High Throughput Biology, Discovery Research, GlaxoSmithKline, Research
     Triangle Park, NC, 27709, USA
SO   Trends in Pharmacological Sciences (2004), 25(8), 437-441
     CODEN: TPHSDY; ISSN: 0165-6147
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PB Elsevier Ltd.
DT Journal; General Review
LA English
AB A review. Functional anal. has broadened our understanding of the physiol. roles of the two related nuclear receptors pregnane X receptor (PXR; NR1I2) and constitutive androstane receptor (CAR; NR1I3). Initial research focused on the role of these two receptors in xenobiotic detoxification and, more recently, addnl. functional roles for CAR have been ***identified*** . Specifically, CAR activity has been shown to ameliorate the effects of hyperbilirubinemia, ***caloric*** ***restriction*** and toxic bile acids. Thus, the physiol. role of CAR has broadened to include responses to metabolic and nutritional stress. These data highlight potential new opportunities in targeting CAR for drug discovery.
RE.CNT 52 THERE ARE 52 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:461226 CAPLUS
DN 137:30221
TI Method for ***identification*** of interventions which ***mimic*** effects of ***calorie*** ***restriction*** on aging
IN Spindler, Stephen R.
PA The Regents of the University of California, USA
SO U.S., 150 pp., Cont.-in-part of U.S. Ser. No. 471,225.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 3

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 6406853	B1	20020618	US 2000-648642	20000825
US 6391270	B1	20020521	US 1999-471225	19991223
WO 2001045752	A1	20010628	WO 2000-US35437	20001222
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 2001024612	A5	20010703	AU 2001-24612	20001222
EP 1239885	A1	20020918	EP 2000-988400	20001222
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2003517830	T2	20030603	JP 2001-546691	20001222
US 2003124540	A1	20030703	US 2002-56749	20020122
US 2003224360	A9	20031204		
PRAI US 1999-471225	A2	19991223		
US 1999-471224	A	19991223		
US 2000-648642	A	20000825		
WO 2000-US35437	W	20001222		

AB Long term ***calorie*** ***restriction*** has the benefit of increasing life span. Methods to screen interventions that ***mimic*** the effects of ***calorie*** ***restriction*** are disclosed. Extensive anal. of genes for which expression is statistically different between control and ***calorie*** - ***restricted*** animals (mice) has demonstrated that specific genes are preferentially expressed during ***calorie*** ***restriction*** . Screening for interventions which produce the same expression profile will provide interventions that increase life span. In a further aspect, it has been discovered that mice on a ***calorie*** - ***restricted*** diet for a relatively short time have a similar gene expression profile to mice which have been on a long term ***calorie*** - ***restricted*** diet. Thus, to ***identify*** effects of ***caloric*** ***restriction*** on global patterns of gene expression, gene chip technol. was utilized to characterize the effects of long and short term ***caloric*** ***restriction*** on the expression of approx. 11,000 genes in the liver. In both long and short term ***caloric*** ***restriction*** mice, changes were obsd. in expression of immune system genes, genes enhancing genetic stability and apoptosis, genes of the enteric nervous system, and liver-specific genes. The expression of chaperone genes, e.g., Erp72, Erp57, GRP170, GRP78, GRP94, and HSC70, calnexin and calreticulin, were particularly affected.
RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:353495 CAPLUS
DN 135:74384
TI ***Caloric*** ***restriction*** mimetics: Metabolic interventions
AU Weindruch, Richard; Keenan, Kevin P.; Carney, John M.; Fernandes, Gabriel; Feuers, Ritchie J.; Floyd, Robert A.; Halter, Jeffrey B.; Ramsey, Jon J.; Richardson, Arlan; Roth, George S.; Spindler, Stephen R.
CS Department of Medicine, University of Wisconsin, Madison, USA
SO Journals of Gerontology, Series A: Biological Sciences and Medical Sciences (2001), 56A(Spec. Issue, 1), 20-33
CODEN: JGASFW; ISSN: 1079-5006
PB Gerontological Society of America
DT Journal; General Review
LA English
AB A review with 162 refs. ***Caloric*** ***restriction*** (CR) retards diseases and aging in lab. rodents and is now being tested in nonhuman primates. One way to apply these findings to human health is to ***identify*** and test agents that may ***mimic*** crit. actions of CR. Panel 2 focused on two outcomes of CR, redn. of oxidative stress and improved glucoregulation, for which candidate metabolic mimics exist. It was recommended that studies on oxidative stress should emphasize mitochondrial function and to test the efficacy of nitrone and other antioxidants in mimicking CR's effects. Studies should also focus on the long-term effects of compds. known to lower circulating glucose and insulin concns. or to increase insulin sensitivity. Also, four other developing areas were ***identified*** : intermediary metab., response to infection, stress responses, and source of dietary fat. These areas are important because either they hold promise for the discovery of new mimetics or they need to be explored prior to initiation of CR trials in humans. Other recommendations were that transgenic approaches and adult-onset CR should be emphasized in future studies.
RE.CNT 162 THERE ARE 162 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

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     (FILE 'HOME' ENTERED AT 17:18:38 ON 26 OCT 2004)

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             ---------
             SEA L1 AND (MIMIC OR SIMULAT?)
             ---------
             0*  FILE ADISNEWS
             0*  FILE ANTE
             0*  FILE AQUALINE
             1   FILE BIOBUSINESS
             0*  FILE BIOCOMMERCE
             0*  FILE BIOENG
             6   FILE BIOSIS
             0*  FILE BIOTECHABS
             0*  FILE BIOTECHDS
             1*  FILE BIOTECHNO
             1   FILE CABA
             1   FILE CANCERLIT
            12   FILE CAPLUS
             0*  FILE CEABA-VTB
             0*  FILE CIN
             1   FILE DDFU
             2   FILE DISSABS
             1   FILE DRUGU
             5   FILE EMBASE
             3*  FILE ESBIOBASE
             9*  FILE FEDRIP
             0*  FILE FOMAD
             0*  FILE FOREGE
             2*  FILE FROSTI
             0*  FILE FSTA
```

```
                5   FILE IFIPAT
                0*  FILE KOSMET
                1   FILE LIFESCI
                0*  FILE MEDICONF
                6   FILE MEDLINE
                0*  FILE NTIS
                0*  FILE NUTRACEUT
                1*  FILE PASCAL
                0*  FILE PHARMAML
                7   FILE PROMT
                7   FILE SCISEARCH
                7   FILE TOXCENTER
               22   FILE USPATFULL
                4   FILE USPAT2
                0*  FILE WATER
                1   FILE WPIDS
                1   FILE WPINDEX
L2              QUE L1 AND (MIMIC OR SIMULAT?)
                ----------

     FILE 'USPATFULL, CAPLUS, FEDRIP, PROMT, SCISEARCH, TOXCENTER, BIOSIS,
     MEDLINE, EMBASE, IFIPAT, USPAT2, ESBIOBASE, DISSABS, FROSTI, BIOBUSINESS,
     CABA, CANCERLIT, DRUGU, LIFESCI, WPIDS, BIOTECHNO, PASCAL' ENTERED AT
     17:23:16 ON 26 OCT 2004
L3          105 S L2
L4           64 DUP REM L3 (41 DUPLICATES REMOVED)
L5           35 S L4 AND (IDENTIF? OR ASSAY?)

     INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE,
     AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS,
     BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB,
     CROPU, DDFB, DDFU, DGENE, DISSABS, ...' ENTERED AT 17:30:22 ON 26 OCT 2004
                SEA (((CALORIE OR CALORIC OR DIET) (W) RESTRICT?))(P) (MIMIC OR
                ---------
                0*  FILE ADISNEWS
                2   FILE AGRICOLA
                0*  FILE ANTE
                0*  FILE AQUALINE
                0*  FILE BIOCOMMERCE
                0*  FILE BIOENG
               18   FILE BIOSIS
                0*  FILE BIOTECHABS
                0*  FILE BIOTECHDS
                9*  FILE BIOTECHNO
                4   FILE CABA
                2   FILE CANCERLIT
               21   FILE CAPLUS
                0*  FILE CEABA-VTB
                0*  FILE CIN
                0*  FILE DDFU

     FILE 'BIOSIS, CAPLUS' ENTERED AT 17:35:46 ON 26 OCT 2004
L6           60 S (((CALORIE OR CALORIC OR DIET) (W) RESTRICT?)) AND (MIMIC OR
L10           5 S L6 AND INTERVENTION
L11           6 S L6 AND (IDENTIF? OR ASSAY?)
L12           5 S L11 NOT L10
```

```
=> log h
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                                42.66     104.54

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)      SINCE FILE      TOTAL
                                                   ENTRY    SESSION
CA SUBSCRIBER PRICE                                -4.20      -4.20

 SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 17:38:07 ON 26 OCT 2004
```